

#### **Description**

μCom-Series is a new range of connectors designed to address the latest trends of the military industry: miniaturization and high speed, with the highest resistance for use in the harshest environments. TV μCom combines μCom-10G+ speed with 38999 Series III size 11 shells robustness.

#### **Main Features**

- Based on MIL-DTL-38999 series III Shell size 11
- 10Gb+: exceeds 10Gb/s Ethernet following IEEE 802.3an-2006: 10GBase-T
- Cat.6A connector according to TIA568C.2 and ISO/IEC11801 standard
- Environmental testing based on MIL-DTL-38999 series III military specifications
- · 4 pairs totally insulated throughout the connector
- Minimum cross-talk between the four pairs
- · Patented special interfacial shapes
- Minimum perturbation at the interface of each pair
- 38999 size 11 shell
- Aluminium shell\*:

Olive Drab Cadmium ▶ salt spray: 500h

Nickel

▶ salt spray: 48h ✓

Black Zinc Nickel ► salt spray: 500h ✓

- Marine bronze shell ✓

▶ salt spray: 500h

- · Machined & gold plated Solder and Crimp contacts
- Design & performance according to the innercontact of M39029/77-429#16 M39029/76- 425#16 38999 coaxial contact
- Contacts are crimped with standard crimping tool M22520/2-01
- + Amphenol µCom positioner
- · µCom contact module: machined brass
- · Solder contact: max AWG24
- · Crimp contact: AWG 24 to 28
- IP68 sealing mated and unmated for PCB receptacles
- 1500 Vrms Dielectric Withstanding Voltage
- Temperature range: 55°C / + 125°C

\*Please contact us for other plating options

: RoHS compliant

## **Markets & Applications**



C4ISR, Battlefield, Ground vehicles



Navy



Commercial Aerospace

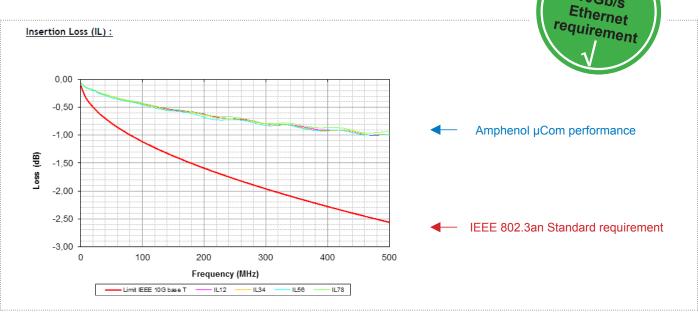


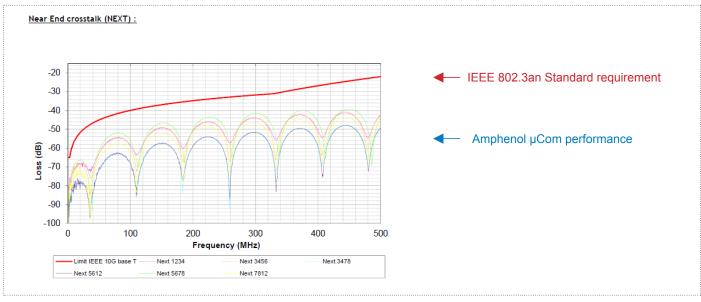
Railway

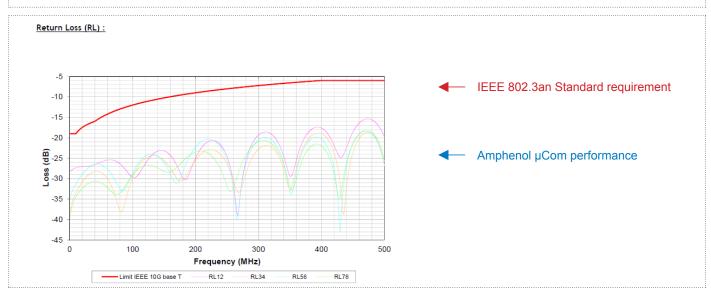
Applications:

Shipboard, In Flight Entertainment \* \*µCom approved by GORE

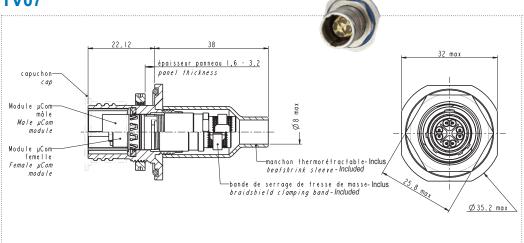
#### **Data Transmission**

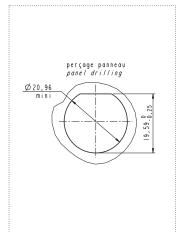






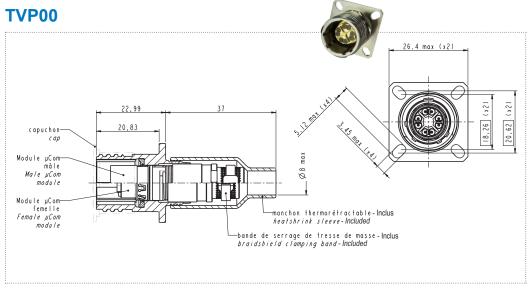
# **Standard Receptacles** TV07

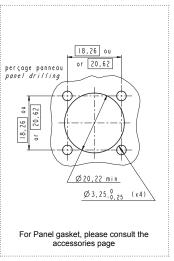




TV07 UCOM X X -11 X

Panel Drilling





TVP00 UCOM X X -11 X

Panel Drilling

## How to order standard receptacles

Series	TV	07	UCOM	С	W	-11	S
Shell type 07: Jam nut receptacle P00: Square flange receptacle							
UCOM							
Contacts termination C: Crimp S: Solder							
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating Th: Aluminium shell - Black zinc nickel plating B: Marine bronze shell							
Shell size 11							
Type of contact P: Male μCom module S: Female μCom module							

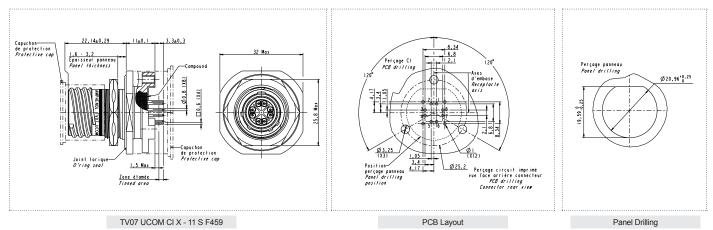
Examples: TV 07 UCOM C W -11 S; TV P00 UCOM S W -11 S

✓: RoHS compliant

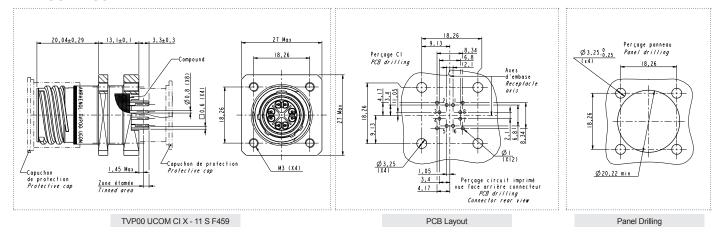
<sup>\*</sup> Please contact us for other plating options

#### **Stand off Receptacles**

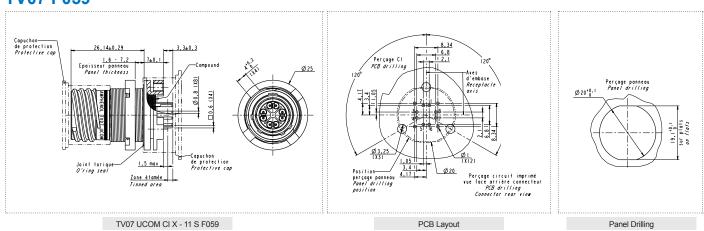
#### **TV07 F459**



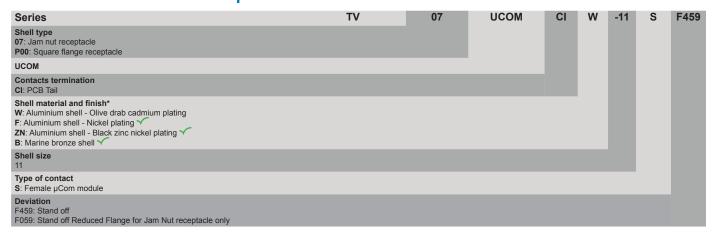
#### **TVP00 F459**



# **Stand off Reduced Flange Receptacle TV07 F059**



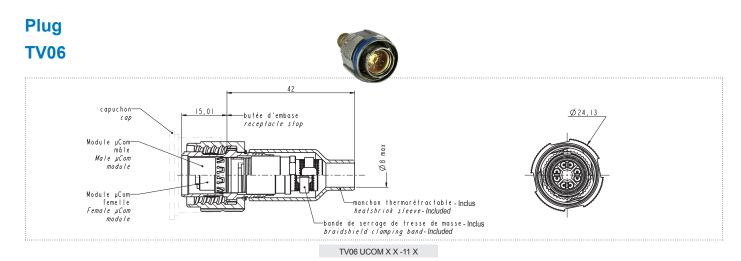
### How to order stand off receptacles



Example: TV07UCOMCIF-11SF459

✓: RoHS compliant

<sup>\*</sup> Please contact us for other plating options



## How to order plugs

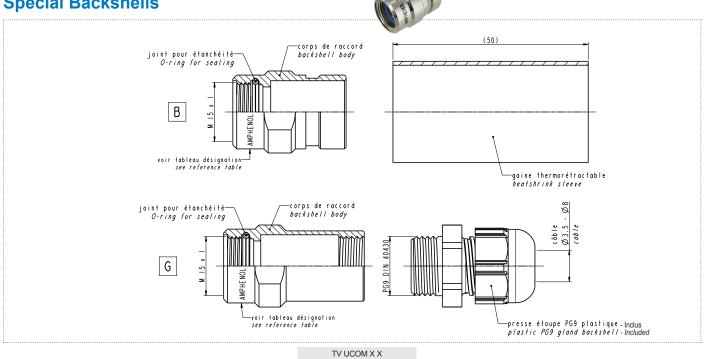
Series	TV	06	UCOM	С	W	-11	Р
Shell type 06: Plug							
UCOM							
Contacts termination C: Crimp S: Solder							
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating TN: Aluminium shell - Black zinc nickel plating B: Marine bronze shell							
Shell size 11							
Type of contact P: Male μCom module S: Female μCom module							

Examples: TV 06 UCOM C F -11 P; TV 06 UCOM S ZN -11 P

\* Please contact us for other plating options

✓: RoHS compliant





## **How to order - Special Backshells**

Series	TV UCOM	W	В
Shell material and finish* W: Aluminium shell - Olive drab cadmium plating F: Aluminium shell - Nickel plating Th: Aluminium shell - Black zinc nickel plating B: Marine bronze shell			
Backshell type B: Backshell for heatshrink sleeve G: Backshell for PG gland			

<sup>✓:</sup> RoHS compliant

<sup>\*</sup> Please contact us for other plating options

# Accessories



### **Spares**









#### **Tools**



Nota: the cabling instructions are available upon demand (ref. N00-040190-00).

#### Watch our videos

#### **Assembly Solder Version**



#### **Assembly Crimp Version**



## TV µCom-10Gb+ - STANDARD METALLIC CAPS

# **Description**

The largest range of protective caps with IP68 protection level.

#### **Main features**

- Compatible with Plugs, Jam nut (Standard and Reduced Flange) and Square Flange receptacles
  IP 68 (permanent sealing)
  Protection again dust, water and moisture
  EMI function
  Nylon cord, stainless steel rope or metallic chain



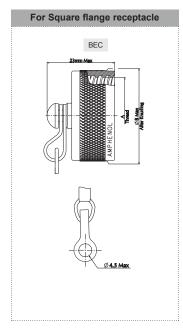


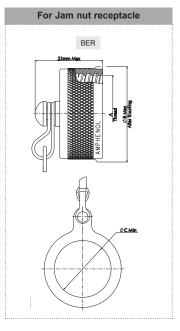


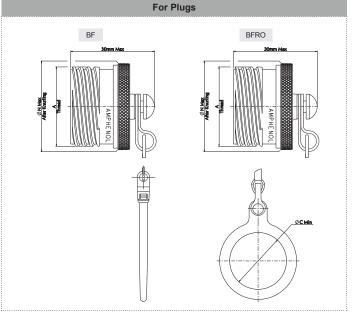




#### **Overall dimensions**



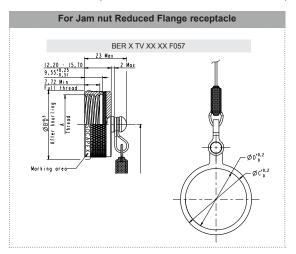




#### Lanyard (Attachment) Length

_ , , ,							
Cap type	Metallic chain length	Nylon cord length	Stainless steel rope length				
BEC/BER for receptacle	127 (+13,-7)						
BF for plug		160±5					

Size	A thread 0.1P-0.3L-TS Class 2A (External) Class 2B (Internal) (inch)	ØB Max (After Knurling)	ØC Min	ØN Max
11	.7500	22,60	21,97	20,50



Size	A Thread	ØB +0,5 0	Ø C +0,2 0	Ø D +0,2 0
11	0.750-2B-0.1P-0.3L-TS	22,60	25,5	20,5

# TV µCom-10Gb+ - METALLIC SELF-CLOSING CAPS

## **Description**

High end protection with metallic self-closing function.

#### **Main features**

- Compatible with Square flange receptacles
- Material: Aluminum
- Platings: Olive drab cadmium, Black zinc nickel, Electroless nickel and Black electrophoresis
- IP67 (1m, 1 hour sealing)
- Protection against dust, water and moistureEMI function
- Fast self-closing function
- Space and weight saving: no need for Dummy receptacle
- No noise from pending cap





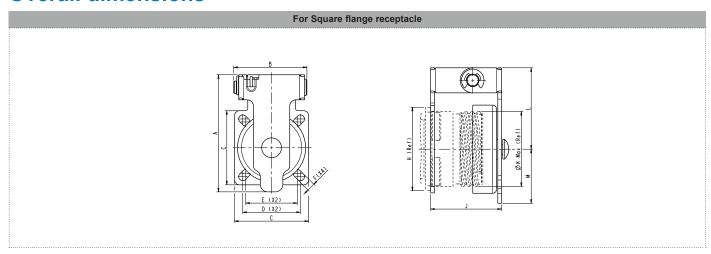








## **Overall dimensions**



Size		Α	В	С	D	E	F	Н	J	ØK Max	L	M	N	ØP Min	Q	ØQ ± 0,13
11	-	43,0	27,2	27,2	20,62	18,26	3,25	26,19	31,2	19,05	27,0	16,0	20,62	15,88	-	3,25

# TV µCom-10Gb+ - SILICONE CAPS

## **Description**

Silicone protective caps against dust and water.

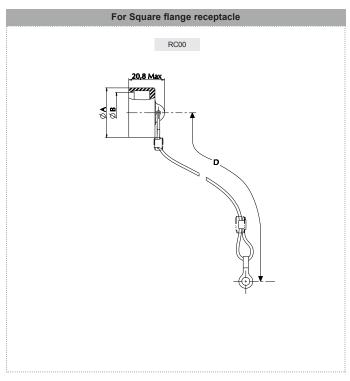
### **Main features**

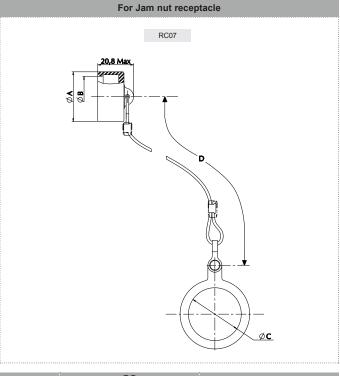
- Compatible with Jam nut and Square flange receptacles
   IP67 (1m, 1 hour sealing)
   Protection against dust and water
   Silicone 200°C
   Nylon cord
   No noise (rubber material)





## **Overall dimensions**





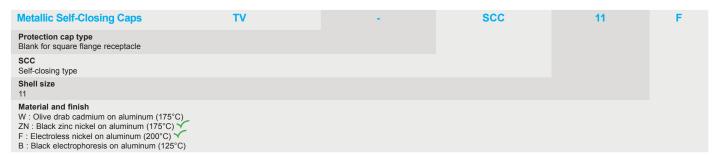
Sizo	Ø C +0,25	ØA	ØВ	D May
3126	0	Max	Max	DIVIAX
11	22,63	22,55	17,2	140

### **HOW TO ORDER - CAPS**

## **Protective Caps - Standard Metallic Caps**

Standard Metallic Caps	В	EC	N	TV	W	11	
Protection cap type EC: For square flange receptacle ER: For jam nut receptacle F: For plug							
Wire type Blank for metallic chain N: Nylon cord R: Jacketed stainless steel rope RO: Jacketed stainless steel rope with wa	asher end (on	ly for plug)					
Connector type							
Material and finish W: Olive drab cadmium plated on aluminu ZN: Black zinc nickel plated on aluminum F: Electroless nickel plated on aluminum B: Marine bronze (200°C) ✓ Z: Green zinc cobalt plated on aluminum	(175°C) (200°C)						
Corresponding connector shell size							
<b>Deviation</b> F057 for jam nut Reduced Flange recepta Blank for others	acle only						

# Protective Caps - Metallic Self-Closing Caps/Square Flange Receptacles only



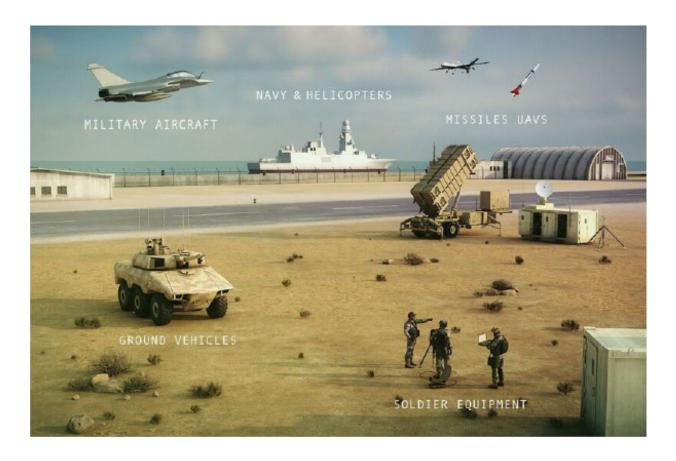
# **Protective Caps - Silicone Caps/Receptacles only**

Rubber Caps	RC	00	N	TV	11
Protection cap type 00: For square flange receptacle 07: For jam nut receptacle					
Wire type N: Nylon cord					
Connector type					
Shell size 11					

✓: RoHS compliant

# **Amphenol Military Interconnections**

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TV07UCOMCIW11SF059 TV07UCOMSZN11S TV07UCOMSF11S TV06UCOMSW11P TV06UCOMCF11P

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TV07UCOMCIZN11SF059 TV07UCOMCIF11SF459 TV07UCOMCIZN11SF459 TVP00UCOMCIF11SF459

TVP00UCOMCIW11SF459 TVP00UCOMCIZN11SF459 TV07UCOMCIF11SF059